

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Michael Louis Frank  
Assignee: Avago Technologies, Ltd.  
New Title: Coupler Detector  
Serial No.: 10/824,696 Filing Date: April 14, 2004  
Examiner: Evan T. Pert Group Art Unit: 2826  
Docket No.: 10031537-1

San Jose, California

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**DECLARATION PURSUANT TO 37 C.F.R. § 1.132**

Michael L. Frank declares and states as follows:

1. I have 28 years of experience as an electrical engineer. I graduated with a Bachelor of Science degree in Electrical Engineering from San Jose State University in 1978. Upon graduation, I was employed by Avantek Incorporated. Avantek was purchased by Hewlett Packard, which spun off Agilent Technologies, which then spun off Avago Technologies. I am currently employed in the Wireless Semiconductor Division of Avago Technologies.

2. Fig. 6 of the present application correctly reflects how one embodiment of the invention may be implemented. Specifically, charge pump 22 (of a form also known as a voltage multiplier) supplies additional charge into node A. This charge is supplied from the signal received from conductor 11, which is part of a coupler formed by conductors 11 and 19.

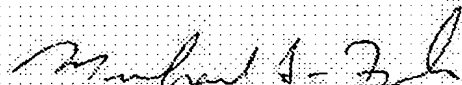
3. A typical charge pump of this form has a port for the primary AC source, a ground connection, and an output. The charge pump converts the AC power at a lower voltage to a higher DC voltage by means of capacitors and diodes connected into a network. Although not shown in Fig. 6, one skilled in the art would understand that charge pump 22 includes a port for the primary AC source.

4. One skilled in the art knew how to build a charge pump in a substrate using conventional technologies at the time the application was filed.

5. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the Application or any patent issued thereon.

Dated: June 6, 2006

Respectfully submitted,

  
Michael L. Frank